

Comparisons of Job Characteristics

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	15.0	20.1	>> Current knowledge level is likely more than sufficient
Public Safety and Security	6.9	9.5	9.2	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	9.1	11.1	> Current knowledge level is likely sufficient
Design	5.2	8.2	10.3	> Current knowledge level is likely sufficient
Building and Construction	4.0	6.9	12.5	>> Current knowledge level is likely more than sufficient
Chemistry	4.8	6.8	9.1	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 73

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	10.8	11.4	0 Current skill level may be sufficient
Equipment Maintenance	3.5	10.7	12.3	> Skill level is likely sufficient
Operation and Control	5.4	10.5	10.9	0 Current skill level may be sufficient
Quality Control Analysis	5.9	10.0	11.2	> Skill level is likely sufficient
Repairing	3.4	9.4	13.5	>> Skill level is likely more than sufficient
Troubleshooting	4.5	9.3	13.3	>> Skill level is likely more than sufficient
Equipment Selection	3.3	8.7	9.4	0 Current skill level may be sufficient

Installation	1.7	5.8	12.6	>>	Skill level is likely more than sufficient
Technology Design	2.6	5.8	3.8	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 87			
Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Extent Flexibility	4.8	13.4	11.8	<	Some improvement in abilities may be required
Arm-Hand Steadiness	6.8	12.4	10.8	<	Some improvement in abilities may be required
Static Strength	5.0	11.6	10.0	<	Some improvement in abilities may be required
Trunk Strength	5.7	11.1	9.6	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	10.1	10.0	0	Current ability level may be sufficient
Dynamic Strength	3.5	8.5	5.9	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	8.4	7.1	<	Some improvement in abilities may be required
Glare Sensitivity	2.6	7.5	5.1	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 87
Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Apply cleaning solvents	41	
Assemble and install pipe sections, fittings, or plumbing fixtures	71	
Assemble, dismantle, or reassemble equipment or machinery	70	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Install electronic equipment, components, or systems	62	
Install equipment or attachments on machinery or related structures	48	
Lubricate machinery, equipment, or parts	59	

Maintain welding machines or equipment	70
Move or fit heavy objects	8
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read work order, instructions, formulas, or processing charts	9
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Replace electronic components	63
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use basic plumbing techniques	72
Use hand or power tools	2
Use knowledge of metric system	39

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 84

Focus Occupation: Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021)

Associated Occupation: Helpers--Installation, Maintenance, and Repair Workers (49-9098)

Tools and Technologies	Exclusivity
Aerial lifts	13
Cleaning equipment	11
Compressors	9
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Dispensing tools	6
Earth moving machinery	11
Face and head protection	7
Forming tools	2
Holding and clamping tools	3
Industrial trucks	10
Industry specific software	1
Ladders and scaffolding	6
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Power tools	2
Pumps	9

Safety apparel	4
Soldering and brazing and welding machinery and supplies	6
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.